TEJUS
CONSULTANTS

PAVER BLOCK(COBBLE STONE) TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Contractor:	M/s.LNR Ventures Construction pvt Ltd
Name of Work:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
No.of Sample Tested:	3
Date of Testing:	17-10-2022
Techinical Reference:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Sl. No.	Details	FLEXURAL STRENGTH, fcr in N/mm^2	Charecteristic Copressive strength fck in N/mm^2	Average Charecteristic Copressive strength fck in N/mm^2
1	Paver Block	3.76	28.88	28.73
2	Paver Block	3.75	28.72	
3	Paver Block	3.74	28.60	

Results: Copressive strength of Paver Block(N/mm^2)= **28.73**

Note:
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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 90 days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Consultant's Representative

TEJUS
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PAVER BLOCK(COBBLE STONE) TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Contractor:	M/s.LNR Ventures Construction pvt Ltd
Name of Work:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
No.of Sample Tested:	3
Date of Testing:	13-10-2022
Techinical Reference:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Sl. No.	Details	FLEXURAL STRENGTH, fcr in N/mm^2	Charecteristic Copressive strength fck in N/mm^2	Average Charecteristic Copressive strength fck in N/mm^2
1	Paver Block	3.76	28.86	28.76
2	Paver Block	3.75	28.72	
3	Paver Block	3.75	28.70	

Results: Copressive strength of Paver Block(N/mm^2)= 28.76

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Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Test Report on Compressive strength of Solid Block

TEJUS CONSULTANTS

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Cross sectional area	80000mm2
Size of cube	400mm x 200mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	11.10.2022	11.10.2022	80000	406.00	5.08	5.05	5.00
2	11.10.2022	11.10.2022	80000	402.00	5.03		
3	11.10.2022	11.10.2022	80000	404.00	5.05		

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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PAVER BLOCK(COBBLE STONE) TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Contractor:	M/s.LNR Ventures Construction pvt Ltd
Name of Work:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
No.of Sample Tested:	3
Date of Testing:	27-10-2022
Techinical Reference:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Sl. No.	Details	FLEXURAL STRENGTH, fcr in N/mm^2	Charecteristic Copressive strength fck in N/mm^2	Average Charecteristic Copressive strength fck in N/mm^2
1	Paver Block	3.75	28.75	28.79
2	Paver Block	3.76	28.88	
3	Paver Block	3.75	28.74	

Results: Copressive strength of Paver Block(N/mm^2)= 28.79

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
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KERB STONE (CORE) TEST REPORT

Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s.LNR Ventures Construction pvt Ltd.
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
No.of Sample Tested	:	3
Date of Testing	:	18-10-2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.377	2258.88	1.70	0.960	29.62	15.09	16.29	15.64	19.55
2	50.00	85.00	0.395	2366.73	1.70	0.960	29.60	15.08	16.28	15.63	19.54
3	50.00	85.00	0.385	2306.81	1.70	0.960	29.72	15.14	16.35	15.69	19.62

Note:

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Asst. Executive Engineer
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Yelahanka Zone
BBMP, Bangalore - 92

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PAVER BLOCK/ COBBLE STONE) TEST REPORT

Client:	Brahat Bangalore Mahanagara Palike
Contractor:	M/s LNE Ventures Construction pvt Ltd
Name of Work:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 4/F SPS park, 7/F SPS park, Sri maliveda machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amruths Nagarothana Grants (PWCKA038/02)
No.of Sample Tested:	3
Date of Testing:	18-10-2022
Technical Reference:	IS:516-1959 (Reaffirmed 1999), SP-24:1983

Sl. No.	Details	FLEXURAL STRENGTH, fcr in N/mm^2	Charecteristic Copressive strength fck in N/mm^2	Average Charecteristic Copressive strength fck in N/mm^2
1	Paver Block	3.76	28.80	28.72
2	Paver Block	3.75	28.78	
3	Paver Block	3.75	28.63	

Results: Copressive strength of Paver Block(N/mm^2)= 28.72

Note:

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The material used in the site attached the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92.

Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s.LNR Ventures Construction pvt Ltd.	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	CONCRETE	
Sample Location	At Plant	**Date of Sampling**	23-10-2022	
		Date of Testing	24-10-2022	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	501	501	5.01	94.99	90-100
10.0	4527	5028	50.28	49.72	40-85
4.75	4313	9341	93.41	6.59	0-10
Pan	659	10000			

Remarks : Satisfactory / Not Satisfactory

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

TEJUS CONSULTANTS

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

TEJUS
CONSULTANTS

Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amruth Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Mahayogi vemanna park

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	24-10-2022	31-10-2022	7days	8.272	22500	308	13.69	13.67
2	24-10-2022	31-10-2022	7days	8.275	22500	306	13.60	
3	24-10-2022	31-10-2022	7days	8.289	22500	309	13.73	

Remarks : Satisfactory / Not Satisfactory

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

TEJUS CONSULTANTS

Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
CONSULTANTS

PAVER BLOCK(COBBLE STONE) TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Contractor:	M/s.LNR Ventures Construction pvt Ltd
Name of Work:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
No.of Sample Tested:	3
Date of Testing:	29-10-2022
Techinical Reference:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Sl. No.	Details	FLEXURAL STRENGTH, fcr in N/mm^2	Charecteristic Copressive strength fck in N/mm^2	Average Charecteristic Copressive strength fck in N/mm^2
1	Paver Block	3.75	28.71	28.76
2	Paver Block	3.76	28.82	
3	Paver Block	3.75	28.76	

Results: Copressive strength of Paver Block(N/mm^2)= **28.76**

Note:
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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

TEJUS CONSULTANTS

Consultant's Representative

TEJUS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS, Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	concrete
Sample Location	At Plant	Date of Sampling	23-10-2022
		Date of Testing	24-10-2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	212	212	7.07	92.93	90 - 100
2.36 mm	318	530	17.67	82.33	75 - 100
1.18 mm	440	970	32.33	67.67	55 - 90
0.600 mm	492	1462	48.73	51.27	35 -59
0.300 mm	716	2178	72.60	27.40	8-30
0.150 mm	625	2803	93.43	6.57	0 - 10
Pan	197	3000			-

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

TEJUS CONSULTANTS

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s.LNR Ventures Construction pvt Ltd.	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	At Plant	**Date of Sampling**	23-10-2022
		Date of Testing	24-10-2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	279	279	2.79	97.21	95 - 100
10.00 mm	4723	5002	50.02	49.98	25 - 55
4.75 mm	4324	9326	93.26	6.74	0 - 10
Pan	674	10000			

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Client:	Brihat Bangalore Mahanagara Palike
Project	Construction of Kaundhara Bharana Building and Bus shelter & providing grill fencing and other development works at 40' SFS park, 70' SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS
Contractor	M/s LNR Ventures Construction pvt Ltd.
Total Weight	10000 gms

SIEVE ANALYSIS

Type of Material	19.5 mm down size	Proposed Use	CONCRETE
Sample Location	At Plant	Date of Sampling	23-10-2022
		Date of Testing	24-10-2022

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
80.0	0	0	0	100	100
19.5	301	301	3.01	94.99	90-100
10.0	4527	5028	50.28	49.72	40-85
4.75	4813	9841	98.41	6.59	0-10
Pan	659	10000			

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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TEST REPORT

Client	Senior Inspector Kanyakumari Police
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 417 SFS park, TC 2/72 park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Valliamma Assembly Constituency Under Amenities Maguniyana Grants. PACL/416-12).
Consultants	TEJUS CONSULTANTS
Contractor	M/s LNT Vamsee Construction pvt Ltd
Total Weight	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	At Site/Plant		Date of Sampling	28.11.2022	
			Date of Testing	29.11.2022	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum % Retained	Cum % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	500	500	5.00	95.00	90-100
10.0	4500	5000	50.00	50.00	40-85
4.75	4795	9795	97.95	2.05	0-10
Pan	205	10000			

Remarks : Satisfactory / Not Satisfactory

Asst. Executive Engineer

Note: Project Director

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2. The Results indicated apply only to the tests carried out on the samples collected at site/received in the laboratory.
3. Any Query regarding the report must be reported reported within 10days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

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Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	24-10-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	115 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	458 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.50%	25 % to 35

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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[illegible]

Client:	[illegible]
Project:	[illegible]
Consultant:	[illegible]
Contractor:	[illegible]

[illegible]

Type of Material:	[illegible]	Date:	[illegible]
[illegible]	[illegible]	Date of Sampling:	[illegible]
[illegible]	[illegible]	Date of Testing:	[illegible]

Sl.No.	Test Description		Trial-1	Trial-2	Trial-3	
A	[illegible]		[illegible]	[illegible]	[illegible]	
B	[illegible]		[illegible]	[illegible]	[illegible]	
C	[illegible]		[illegible]	[illegible]	[illegible]	
D	[illegible]		[illegible]	[illegible]	[illegible]	
E	Bulk specific gravity	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
F	Absorption (%)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory. [illegible]

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fe and other development works at 407 SFS park, 707 SFS park, Sri madivala machic park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	29.10.2022
		Date of Testing	29.10.2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limi (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	288	288	2.88	97.12	95 - 100
10.00 mm	4885	5173	51.73	48.27	25 - 55
4.75 mm	4110	9283	92.83	7.17	0 - 10
Pan	717	10000			

Remarks : Satisfactory / Not Satisfactory

Note:

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

TEJUS CONSULTANTS

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Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement
Date of Sample Tested	29.10.2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	35 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	370 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS

Authorised Signatory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	Tejus Consultants, Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	29.10.2022
		Date of Testing	29.10.2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	315	525	17.50	82.50	75 - 100
1.18 mm	425	950	31.67	68.33	55 - 90
0.600 mm	485	1435	47.83	52.17	35 -59
0.300 mm	780	2215	73.83	26.17	8-30
0.150 mm	680	2895	96.50	3.50	0 - 10
Pan	105	3000			-

Remarks : Satisfactory / Not Satisfactory

Note:

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Asst. Executive Engineer
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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).				
Consultants	TEJUS CONSULTANTS				
Contractor	M/s.LNR Ventures Construction pvt Ltd.				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	30-10-2022	
			Date of Testing	31-10-2022	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	100
20.00 mm	278	278	2.78	97.22	95 - 100
10.00 mm	4722	5000	50.00	50.00	25 - 55
4.75 mm	4323	9323	93.23	6.77	0 - 10
Pan	677	10000			

Remarks : Satisfactory / Not Satisfactory

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).				
Consultants	TEJUS CONSULTANTS				
Contractor	M/s.LNR Ventures Construction pvt Ltd.				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	At Plant		Date of Sampling	30-10-2022	
			Date of Testing	31-10-2022	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	507	507	5.07	94.93	90-100
10.0	4525	5032	50.32	49.68	40-85
4.75	4311	9343	93.43	6.57	0-10
Pan	657	10000			

Remarks: Satisfactory / Not Satisfactory

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BBMP, Bangalore - 92

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	29.10.2022
Period of Soaking	24 hours	Date of Testing	29.10.2022

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	655	628	641	
B	Weight of oven - dry sample gm.	640	615	634	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1680	1685	1682	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.560	2.821	2.709	2.697
G	Absorption (%) $\frac{(A-B)*100}{B}$	2.344	2.114	1.104	1.854

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Asst. Executive Engineer
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Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	31-10-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	119 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	452 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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BBMP, Bangalore - 92

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SPS park, 707 SPS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS, Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	20-10-2022
Period of Soaking	24 hours	Date of Testing	21-10-2022

Sl No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of saturated surface dry sample gm.		676	682	672	
B	Weight of oven - dry sample gm.		664	671	660	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1660	1671	1654	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.675	2.648	2.658	2.658
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.807	1.640	1.818	1.630

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS, Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	**Proposed Use**	concrete
Sample Location	At Plant	**Date of Sampling**	30-10-2022
		Date of Testing	31-10-2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	215	215	7.17	92.83	90 - 100
2.36 mm	322	537	17.90	82.10	75 - 100
1.18 mm	446	983	32.77	67.23	55 - 90
0.600 mm	492	1475	49.17	50.83	35 -59
0.300 mm	716	2191	73.03	26.97	8-30
0.150 mm	625	2816	93.87	6.13	0 - 10
Pan	184	3000			–

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
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Yelahanka Zone
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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s.LNR Ventures Construction pvt Ltd.	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	CONCRETE	
Sample Location	At Plant	**Date of Sampling**	31-10-2022	
		Date of Testing	01-11-2022	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	508	508	5.08	94.92	90-100
10.0	4522	5030	50.30	49.70	40-85
4.75	4314	9344	93.44	6.56	0-10
Pan	656	10000			

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
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Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	unnikrishnan road parallel park

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	31-10-2022	07-11-2022	7days	8.018	22500	310	13.78	13.78
2	31-10-2022	07-11-2022	7days	8.019	22500	308	13.69	
3	31-10-2022	07-11-2022	7days	8.016	22500	312	13.87	

Remarks: Satisfactory / Not Satisfactory

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

TEJUS
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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).				
Consultants	TEJUS CONSULTANTS				
Contractor	M/s.LNR Ventures Construction pvt Ltd.				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	At Plant		Date of Sampling	31-10-2022	
			Date of Testing	01-11-2022	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	276	276	2.76	97.24	95 - 100
10.00 mm	4724	5000	50.00	50.00	25 - 55
4.75 mm	4324	9324	93.24	6.76	0 - 10
Pan	676	10000			

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri Muddaiah machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE 02)
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	Concrete
Location/Source	At Plant/site	Date of Sampling	09-11-2023
Period of Soaking	24 hours	Date of Testing	10-11-2023

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		662	640	630	
B	Weight of oven - dry sample gm.		653	632	622	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1692	1678	1680	
E	Bulk specific gravity	B	2.665	2.657	2.657	2.660
		(C + A - D)				
G	Absorption (%)	(A - B) *100	1.378	1.266	1.286	1.310
		B				

Remarks : Satisfactory / Not Satisfactory

Note:

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2. The results indicated above are based on the tests carried out on the samples submitted by the client in the laboratory.
3. Any Query regarding the report must be reported reported within 7 days of the testing.
4. The material used in the site satisfied the standard of MORTH specifications and can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

TEJUS
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Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	01-11-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	114 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	456 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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TEJUS CONSULTANTS
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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
CONSULTANTS

Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Mahayogi vemanna park

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	01-11-2022	08-11-2022	7 days	8.832	22500	308	13.69	13.84
2	01-11-2022	08-11-2022	7 days	8.742	22500	314	13.96	
3	01-11-2022	08-11-2022	7 days	8.648	22500	312	13.87	

Remarks : Satisfactory / Not Satisfactory

TEJUS CONSULTANTS

Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore 92

TEST REPORT

TEJUS

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s.LNR Ventures Construction pvt Ltd.	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete	
Sample Location	At Plant	**Date of Sampling**	09-11-2022	
		Date of Testing	10-11-2022	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	260	260	2.60	97.40	95 - 100
10.00 mm	4897	5157	51.57	48.43	25 - 55
4.75 mm	4344	9501	95.01	4.99	0 - 10
Pan	499	10000			

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

TEJUS CONSULTANTS

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete	
Sample Location	Plant	Date of Sampling	09-11-2022	
		Date of Testing	10-11-2022	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	572	572	5.72	94.28	90-100
10.0	3342	3914	39.14	60.86	40-85
4.75	5420	9334	93.34	6.66	0-10
Pan	666	10000			

Remarks : Satisfactory / Not Satisfactory

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Yelahanka Zone
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TEJUS CONSULTANTS

Consultant's Representative

TEST REPORT

Clients	Hubli Dharwad Mahanagara Palike
Project	[illegible] Building and [illegible] shelter & [illegible] at [illegible] park, [illegible] park, [illegible] park and [illegible] park at [illegible] Under [illegible] (P.K & [illegible])
Consultants	[illegible]
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SIEVE ANALYSIS

Total Weight:	3000	gms			
Type of Materia	M sand		Proposed Use	Concrete	
Sample Location	At Plant		Date of Sampling	10-11-2023	
			Date of Testing	10-11-2023	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	330	330	[illegible]	[illegible]	90 - 100
2.36 mm	380	710	[illegible]	[illegible]	75 - 100
1.18 mm	313	1023	[illegible]	[illegible]	55 - 90
0.600 mm	310	1333	[illegible]	47.73	35 - 59
0.300 mm	883	2230	[illegible]	23.67	8 - 30
0.150 mm	330	2788	[illegible]	7.80	0 - 10
Pan	331	3000			

Remarks : Satisfactory / Not Satisfactory

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at site/received in the laboratory.
3. Any Query regarding the report must be reported within 7 days from the date of testing.
4. The material used in the site satisfied the standard of IS:383 5th revision and hence can be used in the work.

Contractor's Representative

Consultant's Representative

Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building with Bus shelter & providing [illegible] and other developments works at 70th SFS park, 70th SFS park, Sri Maddi Ganeshdeva park and Major Sandra [illegible] Yelahanka Assembly Constituency Under Amruthu Nagarothana Grants (PAG & AGG)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S UR Vepsons Construction pvt Ltd,
Location	Cement
Grade of concrete:	M25
Size of cube:	150X150X150 mm
Reference IS code:	IS:516-1959
Sample Location	attur bus stop

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg Compressive strength
				Kg	mm^3	KN	N/mm²	N/mm²
1	10-11-2022	17-11-2022	7 days	8.824	22500	370	16.44	
2	10-11-2022	17-11-2022	7 days	8.832	22500	375	16.67	16.61
3	10-11-2022	17-11-2022	7 days	8.870	22500	378	16.80	

Remarks: Satisfactory / Not Satisfactory

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3. Any Query regarding the report must be reported reported within 15days from the date of testing
4. The material used in the site satisfied the standard of MORTH's 5th revision and to their satisfaction of the work

Asst. Executive Engineer
BBMP, Dasarahalli - 92

Consultant's Representative

Test Report on Cement

TEJUS

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement (OPC 43 Grade)
Date of Sample Tested	10-11-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	104 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	426 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

Remarks : Satisfactory / Not Satisfactory

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS

Consultant's Representative

Test Report on Cement

TEJUS

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement (OPC 43 Grade)
Date of Sample Tested	10-11-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	108 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	412 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	

Remarks : Satisfactory / Not Satisfactory

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Yelahanka Zone
BBMP, Bangalore - 92

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